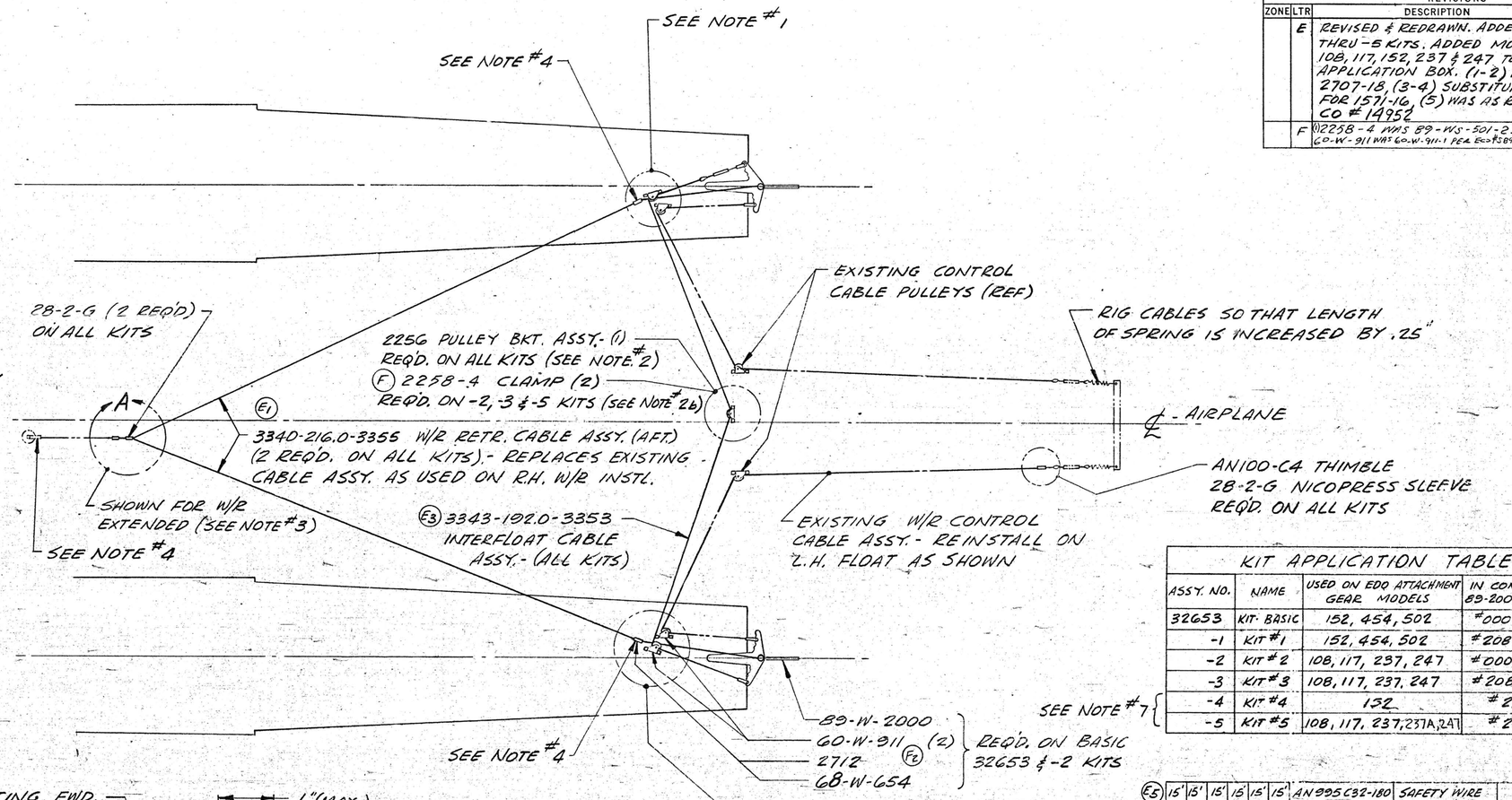
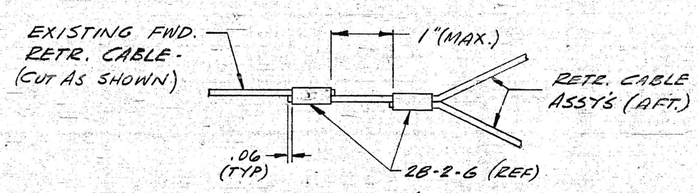
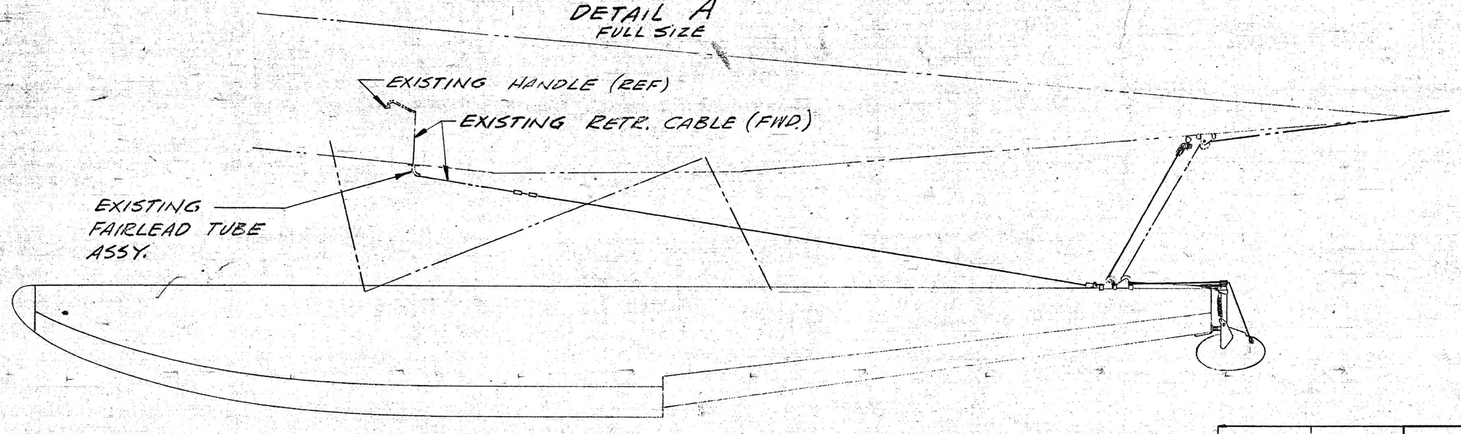
NOTES:

1) REFER TO DWG. 89-WS-505 FOR CORRECT POSITIONING OF R.H. & L.H. FLOAT DECK HARDWARE FOR ALL MODIFICATION KITS.
2) POSITION 2256 PULLEY BKT. ASSY. BETWEEN EXISTING CONTROL CABLE PULLEYS AS SHOWN.
   a) FOR BASIC 32653, -1 & -4 KITS POSITION ONE EYEBOLT TO PICK-UP FIRST RIVET OFF AIRPLANE ℄ THRU BULKHEAD FLANGE. DRILL "F" (.257) 2 HOLES .94" APART.
   b) FOR -2, -3 & -5 KITS LOCATE NEAREST BOTTOM TUBULAR MEMBER AND INSTALL PULLEY BKT ON TUBING CLAMPS PROVIDED.
3) WITH W/R IN RETRACTED POSITION AND HANDLE ENGAGED IN HOOK, NICOPRESS SPLICE CAN BE A MINIMUM OF 2 INCHES FROM END OF FAIRLEAD TUBE. EXACT LOCATION OF SPLICE CAN ONLY BE DETERMINED AFTER A TEMPORARY RIGGED CABLE HAS BEEN CYCLED THRU FULL WATER RUDDER BLADE TRAVEL, AND ADAQUATE CLEARANCE BETWEEN RETRACTION CABLES AND FLOAT ATTACHMENT MEMBERS HAS BEEN ACHIEVED.
4) POSITION FAIRLEADS TO PROVIDE MINIMUM ANGULAR CABLE DEFLECTION.
5) SAFETY ALL TURNBUCKLES WITH AN995 C-32 SAFETY WIRE.
6) FOR FLOAT ATTACHMENT GEAR & SINGLE W/R INSTL. SEE APPLICABLE NEXT ASSY. DWG.
7) KIT -5 CAN BE USED IN LIEU OF KIT - 4 (TWO CLAMPS, 89-WS-501-2, WILL BE SURPLUS.)


SEE NOTE #1
SEE NOTE #4
EXISTING CONTROL CABLE PULLEYS (REF)
RIG CABLES SO THAT LENGTH OF SPRING IS INCREASED BY .25"
28-2-G (2 REQ'D.) ON ALL KITS
2256 PULLEY BKT. ASSY.- (1) REQ'D. ON ALL KITS (SEE NOTE #2)
(F) 2258-4 CLAMP (2) REQ'D. ON -2, -3 & -5 KITS (SEE NOTE #2b)
(E1) 3340-216.0-3355 W/R RETR. CABLE ASSY. (AFT.) (2 REQ'D. ON ALL KITS).- REPLACES EXISTING CABLE ASSY. AS USED ON R.H. W/R INSTL.
℄ - AIRPLANE
AN100-C4 THIMBLE
28-2-G NICOPRESS SLEEVE REQ'D. ON ALL KITS
A
SHOWN FOR W/R EXTENDED (SEE NOTE #3)
SEE NOTE #4
(E3) 3343-192.0-3353 INTERFLOAT CABLE ASSY.- (ALL KITS)
EXISTING W/R CONTROL CABLE ASSY.- REINSTALL ON L.H. FLOAT AS SHOWN
SEE NOTE #7
89-W-2000
60-W-911 (2)
(F2) 2712
68-W-654
REQ'D. ON BASIC 32653 & -2 KITS
SEE NOTE #4
89-WS-505 DECK HARDWARE (2 REQ'D. ON -4 & -5 KITS) SEE NOTE #1



DETAIL A
FULL SIZE



ZONE	LTR	REVISIONS DESCRIPTION	DATE	APPROVED
	E	REVISED & REDRAWN. ADDED -2 THRU -5 KITS. ADDED MODELS 108, 117, 152, 237 & 247 TO N/A APPLICATION BOX. (1-2) WAS 2707-18, (3-4) SUBSTITUTED FOR 1571-16, (5) WAS AS REQ'D. CO # 14952	G.L.R. 5/17/68	P.J.C. 28 MAY 1968
	F	(1) 2258-4 WAS 89-WS-501-2 (2) PER CO-W-911 WAS CO-W-911-1 PER EC #38964 DR	2-29-72	V.P. 3/16/72

KIT APPLICATION TABLE

ASSY. NO.	NAME	USED ON EDO ATTACHMENT GEAR MODELS	IN CONJUNCTION WITH 89-2000 FLOAT SERIAL NOS.
32653	KIT BASIC	152, 454, 502	#0001 THRU #2086
-1	KIT #1	152, 454, 502	#2087 THRU #2320
-2	KIT #2	108, 117, 237, 247	#0001 THRU #2086
-3	KIT #3	108, 117, 237, 247	#2087 THRU #2320
-4	KIT #4	152	#2321 & UP
-5	KIT #5	108, 117, 237, 237A, 247	#2321 & UP

(E5)	15'	15'	15'	15'	15'	15'	AN995C32-180	SAFETY WIRE	A/N	
	1	1	1	1	1	1	AN100C-4	THIMBLE	A/N	
	3	3	3	3	3	3	28-2-G	NICOPRESS SLEEVE	NATL. TELEPHONE SUPPLY CO.	
(F1)	2	-	2	2	-	-	2258-4	CLAMP	SEE SEP. DWG.	
	-	-	-	1	-	1	2712	SPACER	SEE SEP. DWG.	
	2	2	-	-	-	-	89-WS-505	INSTL. DECK HARDWARE	SEE SEP. DWG.	
(E4)	1	1	1	1	1	1	3343-192.0-3353	INTERFLOAT CABLE ASSY		
(E2)	2	2	2	2	2	2	3340-216.0-3355	RETR. CABLE ASSY. (AFT)		
	1	1	1	1	1	1	2256	PULLEY BRACKET ASSY.		
	-	-	-	1	-	1	68-W-654	FAIRLEAD ASSY. - W/R		
(F2)	-	-	-	2	-	2	60-W-911	PULLEY BRACKET ASSY.		
	-	-	-	1	-	1	89-W-2000	W/R ASSY. & INSTL. L/H	SEE SEP. DWG	
	-	-	-	-	-	-	-5	KIT NO. 5	THIS DWG.	
	-	-	-	-	-	-	-4	KIT NO. 4	SEE	
		-	-	-	-	-	-3	KIT NO. 3	APPLICATION	
			-	-	-	-	-2	KIT NO. 2	TABLE	
				-	-	-	-1	KIT NO. 1	ABOVE	
-5	-4	-3	-2	-1			32653	KIT-BASIC	THIS DWG.	SEE N/L
NO REQ. PER ASSY.							PART NO	PART NAME	MATERIAL	

PIPER PA-18	-5	69470	MOD 237A
CESS. 172B & UP	32653 & -1	3G335	MOD. 502
CESS. 172 & 172A	32653 & -1	32333	MOD. 454
PIPER PA-20, 22	-2, -3 & -5	1G270	MOD. 247
PIPER PA-18	-2, -3 & -5	14390	MOD. 237
CESS. 170A	32653, -1 & -4	05500	MOD 152
PIPER PA-12	-2, -3 & -5	89-5-180	MOD. 117
AERONCA 15AC	-2, -3 & -5	000655	MOD. 108
AIRPLANE	KIT ASSY. NO	NEXT ASSY	USED ON
		APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR ±
2 PLACE DECIMAL ± .—
3 PLACE DECIMAL ± .—
DO NOT SCALE THIS DRAWING
MATERIAL:

DRAWN	O. WARD 3-26-59
CHECKED	T. 4-1-59
STRESS	J.K. 4-6-59
ENGRG	A.R.
RELEASE DATE	A.D.A. 4-7-59
APPROVED	RITTER DER 1-52

EDO CORPORATION
COLLEGE POINT, N. Y. 11356

MODIFICATION KITS FOR TWIN WATER RUDDERS

SIZE F | CODE IDENT NO. 82340 | DWG NO. 32653

SCALE 1:10 | SHEET 1 OF 1